Wireguard

Create Key Pairs

Host A

```
root@hosta # wg genkey > privateA
root@hosta # wg pubkey < privateA > publicA
```

Host B

```
root@hostb # wg genkey > privateB
root@hostb # wg pubkey < privateB > publicB
```

Assign Link Network to Wireguard-Tunnel

```
Link-Network: 172.24.0.0/30
HostA: 172.24.0.1/30
HostB: 172.24.0.2/30
```

Create Config

Assumption Host A is visible to Host B

Host A

```
root@hosta # cat /etc/wireguard/wg0.conf
# HostA - HostB
[Interface]
Address = 172.24.0.1/30
PrivateKey = <contents of privateA>
ListenPort = 51820

[Peer]
PublicKey = <contents of publicB>
AllowedIPs = 172.24.0.2/32
```

Host B

```
root@hostb # cat /etc/wireguard/wg0.conf
# HostB - HostA
[Interface]
```

```
Address = 172.24.0.2/30
PrivateKey = <contents of privateB>
ListenPort = 51820
#If something needs to happen after tunnel is up or before tunnel goes down
#PostUp = /usr/local/sbin/wg0-PostUp.sh
#PreDown = /usr/local/sbin/wg0-PreDown.sh

[Peer]
PublicKey = <contents of publicA>
Endpoint = <visible ip of HostA>
AllowedIPs = 172.24.0.1/32
# Uncomment if HostB is behind NAT Router
# PersistentKeepAlive = 25
```

Start Wireguard Tunnel

Issue on both hosts

```
root@hosta # wg-quick up wg0
root@hostb # wg-quick up wg0
```

Check Status

Host A

```
root@hosta # wg
interface: wg0
  public key: PUBLIC-KEY-A
  private key: (hidden)
  listening port: 51820

peer: PUBLIC-KEY-B
  endpoint: 185.69.244.140:25920
  allowed ips: 172.24.0.2/32
  latest handshake: 1 minute, 44 seconds ago
  transfer: 2.80 MiB received, 1.09 MiB sent
```

Host B

```
root@hostb # wg
interface: wg0
  public key: PUBLIC-KEY-B
  private key: (hidden)
  listening port: 51820

peer: PUBLIC-KEY-A
  endpoint: 144.76.72.57:51820
```

```
  allowed ips: 172.24.0.1/32
  latest handshake: 21 seconds ago
  transfer: 1006.68 KiB received, 2.57 MiB sent
  persistent keepalive: every 25 seconds
```

Fallback systemd Service to call PreDown Script

```
cat << EOF > /etc/systemd/system/wg0-shutdown-fallback.service
[Unit]
Description=WireGuard wg0 shutdown fallback
DefaultDependencies=no

Before=shutdown.target reboot.target halt.target
Before=wg-quick@wg0.service

Conflicts=shutdown.target reboot.target halt.target

After=local-fs.target

[Service]
Type=oneshot
RemainAfterExit=yes

ExecStart=/bin/true
ExecStop=/usr/local/sbin/wg0-down.sh

TimeoutStopSec=30

[Install]
WantedBy=multi-user.target
EOF
systemctl daemon-reload
systemctl enable wg0-shutdown-fallback.service
systemctl start wg0-shutdown-fallback.service
```

kb, linux

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